

# Clean Rooms

## Sandwich panels for controlled environment areas

Panel-Est / Panel-Lab



  
**Kingspan**

  
**invespanel**





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# Kingspan | Invespanel



We supply the widest range of bespoke sandwich panels on the market for the industrial and construction sectors.

We manufacture high quality sandwich panels to meet all the technical and individual requirements of our customers. We create tailor-made products to install quickly, safely and cleanly.

We supply our sandwich panels to the following industries and business areas:

- Clean room construction: wall and ceiling panels
- Surface treatment industry: construction of paint lines/cabinets and ovens up to 250°C
- Construction sector: fire-certified façade, roofing and partitioning panels
- Acoustic solutions and noise reduction
- Agri-food industry: construction of cold storage facilities

Kingspan | Invespanel is the international brand of Teczone Española S.A.U. for sandwich panels with rockwool, PIR and aluminium honeycomb cores; and with steel and HPL faces.



## R&D&i

As an export-oriented manufacturer, we offer high quality sandwich panels manufactured under strict controls and meeting the highest standards.

Our company holds the ISO 9001 and ISO 14001 quality and environmental certifications.

Our R&D&i department is a key part of Kingspan | Invespanel. Our engineering team works exclusively on the development of new products and the improvement and adaptation of existing products. The Kingspan | Invespanel R&D&i department handles the following tasks:

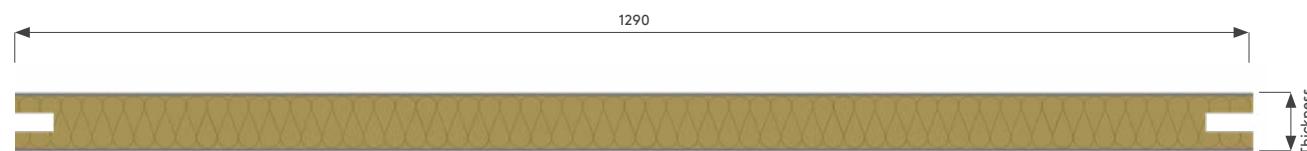
- New product development
- Conducting and preparing tests
- Efficient use of capacities to improve production processes and the quality of our products.
- Solution and improvement of any aspect related to quality control and production processes.

# Panel-Est

## with rock wool core

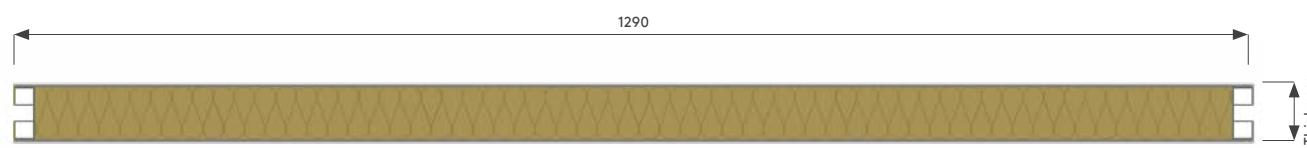
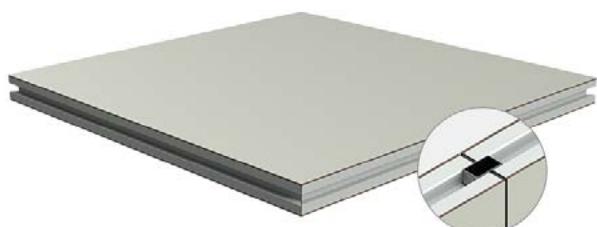
### Panel-Est Roc

- The phenolic resin boards or sheets of the outer faces of the Panel-Est Roc panel are compact, non-porous and highly resistant to impact and to the growth of micro-organisms.
- The rock wool core of the panel provides excellent thermal and acoustic performance.
- Outer faces made of 3 mm thick phenolic resin.
- Panel-Est Roc is characterised by its wear resistance and structural stability.
- Through the design of its components, this solution offers high resistance to humidity and impact, making it ideal for clean rooms, hospitals, laboratories and GMP rooms.



### Panel-Est Roc Alu

With aluminium frame profile



### Core and thickness

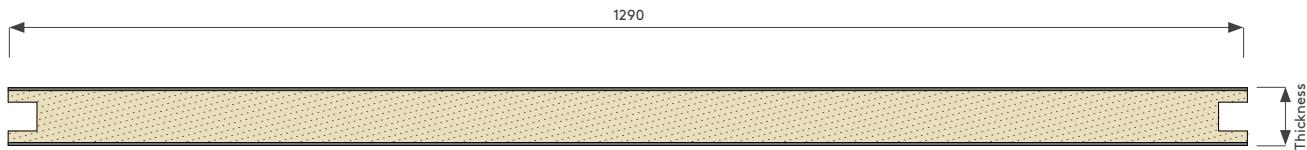
Insulating core	Rock Wool			
Standard dimensions (width x length)	1290 x 3040 mm/940 x 2140 mm			
Panel thickness Panel-Est Roc (mm)	30	40	50	60
Panel thickness Panel-Est Roc ALU (mm)	60			

# Panel-Est

## with PIR core

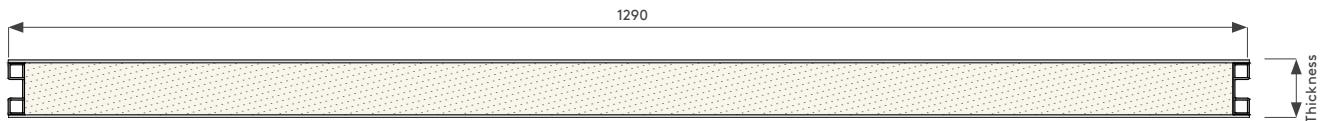
### Panel-Est PIR

- The phenolic resin boards or sheets of the outer faces of the Panel-Est PIR panel are compact, non-porous and highly resistant to impact and to the growth of micro-organisms.
- The PIR insulation core, thanks to its closed cell structure, does not absorb water and is immune to attack by fungi and other deteriorating agents, maintaining its thermal performance throughout its service life.
- Panel-Est PIR is characterised by its wear resistance and structural stability.
- Through the design of its components, this solution offers high resistance to humidity and impact, making it ideal for clean rooms, hospitals, laboratories and GMP rooms.



### Panel-Est PIR Alu

With aluminium frame profile



### Core and thickness

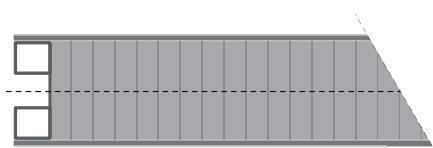
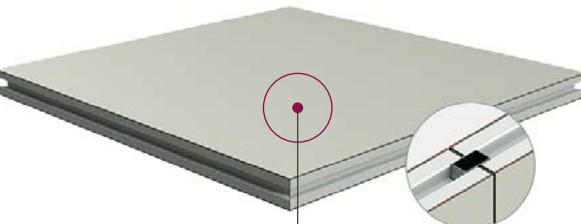
Insulating core	Rigid PIR foam			
Standard dimensions (width x length)	1290 x 3040 mm/940 x 2140 mm			
Panel thickness Panel-Est PIR (mm)	30	40	50	60
Panel thickness Panel-Est PIR ALU (mm)	60			

# Panel-Est

## with Honeycomb core

### Panel-Est Honey Alu

- The aluminium honeycomb is a lightweight core with high resistance to compression and shear, as well as to corrosion and fungal growth.
- Its use as the core of Panel-Est panels, with a resin exterior, greatly reduces the weight of the panel, providing rigidity and durability, making it ideal for the construction of clean room panels.
- Outer faces made of 3 mm thick phenolic resin.



Detail of the interior of the honeycomb core

### Core and thickness

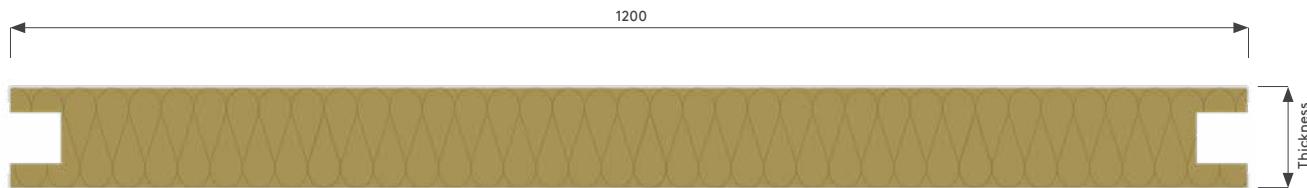
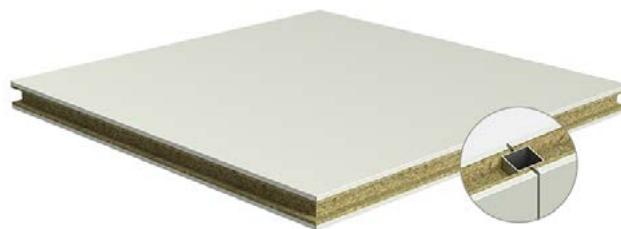
Insulating core	Aluminium honeycomb
Standard dimensions (width x length)	1290 x 3040 mm/940 x 2140 mm
Panel thickness (mm)	60

# Panel-Lab

## with rock wool core

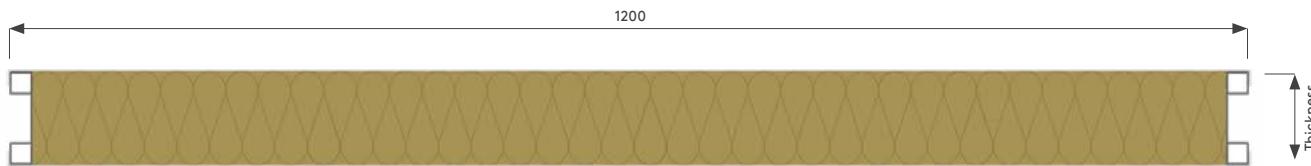
### Panel-Lab Roc

- The rock wool core of the Panel-Lab Roc insulation board is lightweight, with good compressive strength, high thermal and acoustic insulation and high durability.
- The high performance of the Panel-Lab Roc, such as its lightness, rigidity, and durability, makes it an ideal panel for constructing enclosures in clean rooms.
- Sandwich panel with rock wool core, with two density options and steel faces measuring 0.5 mm and/or 0.6 mm.
- Wide range of highly durable coatings, adapted to the environment in which the panel will be installed.



### Panel-Lab Roc Alu

With aluminium frame profile



### Core and thickness

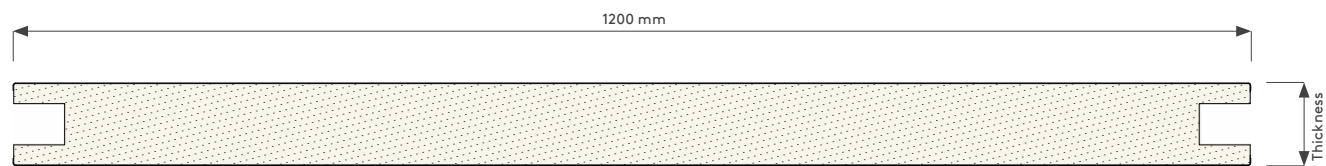
Insulating core	Rock Wool							
Useful width	1,200 mm							
Panel thickness Panel-Lab Roc (mm)	25	30	40	50	60	80	100	120
Panel thickness Panel-Lab Roc Alu (mm)	40		50		60		80	

# Panel-Lab

## with PIR core

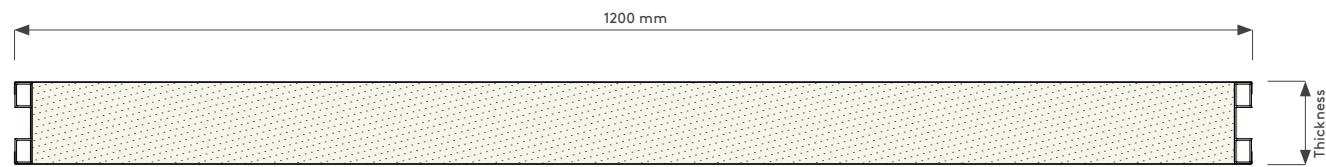
### Panel-Lab PIR

- The high performance of Panel-Lab PIR, such as its lightness, rigidity and durability, make it an ideal panel for the construction of enclosures for clean rooms in sectors such as biopharmaceutical, healthcare, biosafety, technology, automotive, and aeronautical.
- The PIR insulation core, thanks to its closed cell structure, does not absorb water and is immune to attack by fungi and other deteriorating agents, maintaining its thermal performance throughout its service life.
- Sandwich panel with folded steel edges. Steel faces in 0.5 and/or 0.6 mm thickness.
- Wide range of highly durable coatings, adapted to the environment in which the panel will be installed.



### Panel-Lab PIR Alu

With aluminium frame profile



### Core and thickness

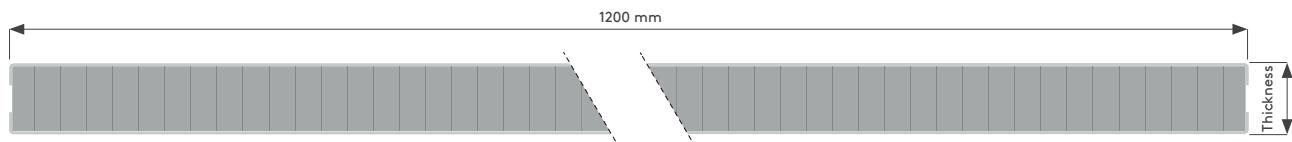
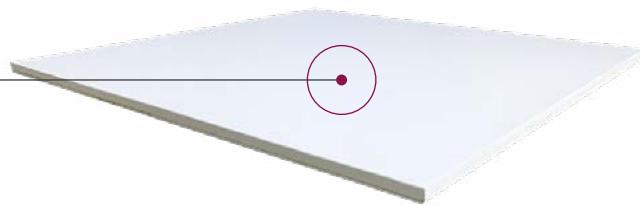
Insulating core	Rigid PIR foam						
Useful width	1,200 mm						
Panel thickness Panel-lab PIR (mm)	30	40	50	60	80	100	120
Panel thickness Panel-lab PIR Alu (mm)	40	50	60	80			

# Panel-Lab

## with Honeycomb core

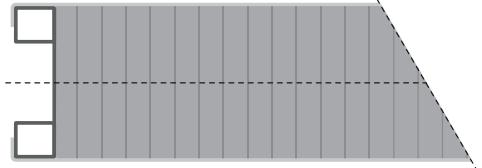
### Panel-Lab Honey

- The aluminium honeycomb is a lightweight core with high resistance to compression and shear, as well as to corrosion and fungal growth.
- Sandwich panel with folded steel edges.
- Steel faces in 0.5 and/or 0.6 mm thickness.
- Wide range of highly durable coatings, adapted to the environment in which the panel will be installed.



### Panel-Lab Honey Alu

With aluminium frame profile



### Core and thickness

Insulating core	Aluminium honeycomb				
Useful width	1,200 mm				
Panel thickness Panel-Lab Honey (mm)	10				
Panel thickness Panel-Lab Honey Alu (mm)	40	50	60	70	80

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